

imposed a severe strain on the transmission system. The transmission capability which had been impaired due to reduced capability of the Rihand-Dadri HVDC line got further eroded due to tripping of major high voltage transmission lines in UP system and this triggered grid separation and collapse.

Immediately after the grid collapse, Minister of Power addressed a letter to the Chief Minister of UP and to all the Chief Ministers advising them to ensure grid discipline by restricting their drawals from the grid in accordance with their allocated quota and grid requirements. Secretary (Power) on 11.1.2001 directed Chairman, Central Electricity Authority to monitor the action taken on weekly basis for implementing the recommendations made for preventing recurrence of such incidents. The implementation of the Action Plan formulated in accordance with the recommendations made by Chairman, Central Electricity Authority is being vigorously monitored by Central Electricity Authority and Ministry of Power.

(d) The important preventive measures being taken to avoid such incidents in future are as follows:—

1. Periodic preventive and regular maintenance of all HVDC, 400 KV and 220 KV lines and sub-stations.
2. Introduction of free governor mode of operation at all generating stations.
3. Ensuring proper operation of under frequency load shedding relays in SEBs distribution systems.
4. Implementation of a rational commercial mechanism which would induce SEBs to regulate their drawal and the generators to generate power according to schedules, to enable stabilization of voltage and frequency.
5. Installation of capacitors at load centres of State Electricity Boards.

#### **Power Generation Schemes in Tripura**

1276. SHRI KHAGEN DAS: Will the Minister of POWER be pleased to state:

- (a) the total number of power generation schemes under consideration or sanctioned for North-Eastern States and Tripura in particular;
- (b) whether there is a shortage of power in North-Eastern Region; and
- (c) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTIMEHTA): (a) The following power projects are under execution in various States pf the North-Eastern Region including Tripura:

S.No	Name of Project	Capacity (MW)
<b>NEEPCO</b>		
1.	Ranganadi HEP (Ar.Pr.)	405
2.	Tuirial HEP ("Mizoram)	60
3.	KopiHSt.IIHEP(Assam)	25
<b>NHPC</b>		
4.	Loktak DS HEP (Manipur)	90
<b>STATE SECTOR</b>		
5.	Lower Borpani (Karbi Langpi) Assam	100
6.	Dhansiri HEP (Assam)	20
7.	Likim Ro (Nagaland)	1A
8.	Rokhita GTExtn. Phi & II (Tripura)	2x21
9.	Baramura GT Extn. (Tripura)	21
10.	Heavy Fuel Based power project at Leimkhong (Manipur)	36
11.	AmguriCCGT (Assam)	90—100
12.	Bargolai TPS (Assam)	120
13.	Lakwa Waste Heat Recovery Unit (Assam)	38
14.	Udaipur TPP (Assam)	120

A list of projects in various North-Eastern Sates including Tripura which have been cleared by CEA, DPRs under examination and schemes returned to project authorities for want of inputs is given in Statement (*See below*).

(b) and (c) There is no energy shortage in any of the state of North-Eastern region except Manipur. The shortage in Manipur is due to constraints

[7th March, 2001]

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in transmission and sub-transmission system. The Power supply position in N.E. Region during the period April—January, 2001 is given below:—

(All figures in MU)

Name of State	Requirement	Availability	Surplus%
Ar. Pradesh	106.0	108.6	15
Assam	2571.8	2810.8	93
Manipur	385.8	382.9	-0.8
Meghalaya	457.8	499.0	9.0
Mizoram	203.4	210.6	35
Nagaland	186.1	192.5	3.4
Tripura	470.3	500.3	6.4

**Statement**

*Project of NE States cleared by CEA*

Name of Project	Capacity (MW)
<b>CEA cleared/Appraised</b>	
Kameng HEP (Ar. Pr.) NEEPCO	600
Bairabi Dam Project (Mizoram)	80
Tuivai HEP NEEPCO (Mizoram)	210
Leishka(Myntdu)HEP 1 (Meghalaya)	84
<i>DP Rs under examination</i>	
Kolodyne HEP St. I (Mizoram)	120
<i>DPRs returned for want of essential inputs</i>	
Lower Kopili HEP NEEPCO (Assam)	150
Dihang MPP (Ar. Pr.)	20,000
Subansiri MPP (Ar. Pr.)	4800
Demwe HEP NEEPCO (Ar. Pr.)	520
Ranganadi St. II HEP NEEPCO (Ar. Pr.)	280
Irang HEP (Manipur)	600
Tripura Gas based GT Plant NTPC (Tripura)	500
Monarchak CCPP NEEPCO (Tripura)	500
<b>Projects under transition in CEA</b>	
Tipaimukh MPP NEEPCO (Manipur)*	1500